

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF CLAIMS:

1-18. (cancelled)

19. (currently amended) [:] ~~Bioactive dishes A~~  
~~bioactive dish for cell cultures, the dish comprising on their~~  
~~a bottom surface, and~~  
~~a bilayer coated on the bottom surface, the bilayer~~  
comprising an internal primary layer made of hydroxypropylmethylcellulose (HPMC) [,] or polyvinyl alcohol (PVA) in contact with the bottom ~~surface of the dishes~~, and an external bioactive layer made of ~~comprising~~ carboxypropylmethylcellulose situated on said internal primary layer.

20. (currently amended) [:] ~~Bioactive dishes The~~  
~~bioactive dish according to claim 19, characterized in that they~~  
~~are said dish presented in the form of a Petri dish dishes, such~~  
~~as polystyrene Petri dishes of commercial origin, or in the form~~  
~~of a multi-well plate plates, on the bottom of which the bilayer~~  
~~is situated.~~

21. (currently amended) [:] ~~Bioactive dishes~~ The bioactive dish according to claim 19, ~~characterized in that the thicknesses of wherein the internal HPMC or PVA layer, and of the external CMC layer, each have a thickness of are a few microns, in particular~~ approximately 1 to 5 microns.

22. (currently amended) [:] ~~Method A method~~ for preparing the bioactive dish dishes according to claim 19, comprising ~~characterized in that it comprises:~~

[[-]] ~~a stage of activation of activating~~ the surface of the bottom of the dish dishes by electromagnetic discharges,

[[-]] ~~the~~ depositing ~~of~~ the internal HPMC primary layer on the bottom of the dish dishes, and then drying the primary layer,

[[-]] ~~the~~ depositing ~~of~~ the external bioactive layer on the dried primary layer obtained in the preceding stage, and then drying the external bioactive layer.

23. (canceled)

24. (currently amended) [:] ~~Method A method~~ for screening anti-ageing molecules intended to prevent inhibit and or delay the effects of ageing, ~~characterized in that it comprises comprising:~~

[[ - ]]~~a stage of culturing cells, such as fibroblasts,~~  
in the presence of ~~the~~ an anti-ageing molecules molecule to be  
studied, in the culture dishes defined in claim 19,

[[ - ]]~~the observation of observing~~ the cells by  
microscope ~~in order to obtain observations regarding study their~~  
the cells' morphology,

[[ - ]]optionally detecting and/or quantifying the  
cells' proliferation and/or the cells' synthesis to obtain data  
and/or the detection, or even the quantification, of the  
proliferation and syntheses,

[[ - ]]and the comparison with comparing the  
observations and/or data results obtained in the steps above on  
with observations and/or data obtained in cultures of control  
cells used as controls, said control cultures cells being carried  
out by culturing said cells cultured in said culture dishes but  
in the absence of said anti-ageing molecules to be studied, in  
the dishes.

25. (currently amended) [[ : ]]Method A method for  
screening antitumor molecules intended for the treatment of  
cancer, ~~characterized in that it comprises~~ comprising:

[[ - ]]~~a stage of culturing tumor cells, such as animal~~  
~~or human melanoma cells,~~ in the presence of ~~the~~ an antitumor  
molecules molecule to be studied, in the culture dishes defined  
in claim 19,

[[-]] ~~observation of observing~~ the cells by microscope in order to ~~obtain observations regarding study their~~ the cells' morphology and/or ~~their~~ the cells' differentiation,

[[-]] ~~optionally detecting and/or quantifying the cells' and/or the detection, or even the quantification, of their~~ proliferation, differentiation and apoptosis to obtain data,

[[-]] and ~~comparison with comparing~~ the observations and/or data ~~results obtained in the steps above with observations and/or data obtained in on cell cultures of control cells used as controls, said control cells being cultured in said culture dishes but cultures being carried out by culturing said cells in the absence of said antitumor molecules to be studied, in the culture dishes.~~

26. (currently amended) [[:]] ~~Method A~~ method for *in vitro* diagnosis of the malignancy of tumor cells by ~~measurement of measuring~~ the residual ability of cancer cells to differentiate, ~~characterized in that it comprises comprising:~~

[[-]] ~~a stage of culturing cancer cells, such as human melanoma cells obtained from biopsies, in the culture dishes defined in claim 19,~~

[[-]] ~~the observation of observing~~ the cells by microscope in order to study ~~their~~ the cells' morphology and/or differentiation, and

optionally detecting and/or quantifying the cells'  
~~and/or the detection, or even the quantification, of their~~  
proliferation, viability and apoptosis.

27. (canceled)

28. (new) A method for prognosing tumors, comprising applying the method for *in vitro* diagnosis according to claim 26 to a tumor cell sample.